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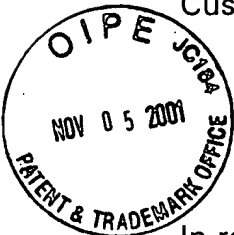
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PATENT TRADEMARK OFFICE

Docket No: 9373/1E827US1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Frances H. ARNOLD; Hyun JOO

Serial No.: 09/246,451

Art Unit: 1652

Filed: February 9, 1999

Examiner: M. Rao

For: OXYGENASE ENZYMES AND SCREENING METHOD

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RESPONSE TO OFFICIAL ACTION, SUBMISSION OF SUBSTITUTE
SEQUENCE LISTING, AND STATEMENT UNDER 37 C.F.R. 1.821

Hon. Commissioner of
Patents and Trademarks
Washington, DC 20231

November 5, 2001

Sir:


In response to the Official Action dated June 4, 2001, please amend the above-identified application as follows and consider the following remarks. Accompanying this Response are (1) a Petition to extend the time to respond to the Office Action for a period of 2 months, from September 4, 2001, to November 5, 2001; (2) Formal Drawings; and (3) a Substitute Sequence Listing (paper copy and diskette).

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IN THE DRAWINGS:

 In response to the Notice of Draftsperson's Patent Drawing Review enclosed with the Office Action, kindly substitute the drawings on file with the drawings and photographs accompanying this response.

IN THE SPECIFICATION:

Please amend the specification pursuant to 37 C.F.R. 1.121 as follows (see the accompanying "marked up" version pursuant to 1.121):

Amend the paragraph on page 13, line 29, to read as follows:

FIG. 22 shows the coding sequence of the pelB signal peptide ([SEQ. ID. NO. 14 and 15]).

Amend the paragraph on page 13, lines 30-31, to read as follows:

FIG. 23 shows a nucleotide and amino acid sequence encoding an HRP enzyme variant designated HRP1A6 ([SEQ. ID. NO. 16 and SEQ. ID. NO. 17]).